

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Brian Short <ke7gh@primenet.com>  
Subject: [3415] \*\* New Ham Reflector \*\*  
Message-ID: <01BB96C0.832EF300@ip087.phx.primenet.com>

Announcing the newest amateur radio mailing list:

BitBucket is a mailing list (reflector) devoted to  
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Brian ke7gh@primenet.com >or< <http://www.primenet.com/~ke7gh>

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: lbbarley@feist.com (Bruce Barley)  
Subject: [3383] 2-W NON-inductive resistors FOUND  
Message-ID: <199608300650.BAA24288@wichita.fn.net>

As I remember, the comment was made some time ago that 2-Watt resistors of  
ANY sort

were becoming difficult to locate.

Well, in perusing my latest DIGI-KEY catalog (#965 - Sept/Oct 1996)

lo-and-behold, I

found on page 267 a listing for 2 watt resistors. And, bless-my-bias they  
are also

NON-INDUCTIVE 5% METAL FILM! The full standard range from .47 to 1Meg is

available  
for 27 to 29 cents each in single quantities. In lots of 10 ea per value,  
the price  
drops to 21 cents each.  
Just a thought--- 51 ohms is a standard 5% resistance value...so is 75 and  
300 ohms.  
Check at [www.digikey.com](http://www.digikey.com) or 1-800-DIGIKEY.

Standard disclaimers apply.

72's - 73's and best DX to you.

Bruce Barley KB0PZD qrp-1 #69  
[lbbarley@feist.com](mailto:lbbarley@feist.com)

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Bob Hirsch <[bobh@p3.net](mailto:bobh@p3.net)>  
Subject: [3394] 600 ohm phones  
Message-ID: <1.5.4.32.19960830150136.0067f19c@p3.net>

OK everybody -- here's a question for you. For you Scout owners and  
anybody else who wants 600 ohm headphones, how about just putting a 600 ohm  
resistor in series with a low impedance set of phones, and use whatever ones  
are comfortable and fit the head and the budget?  
Wouldn't a series resistor do the same thing (600 ohms + 8 ohms) or am I  
missing something in this picture?

-----  
73 de Bob, AA30N

No Code, No HF....Know Code, Know HF!

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: [facmsa@facilities.buffalo.edu](mailto:facmsa@facilities.buffalo.edu) (Adams, Mark S.)  
Subject: [3391] 600 Ohm Phones Found!  
Message-ID: <1996Aug30.075700.1483.14690@facilities.buffalo.edu>

Hi Gang,

We were discussing the "digital hiss" in the Ten Tec Cubby/Scout and I mentioned that TT recommends 600 ohm headphones in order to get the same relative volume from the phones and the speaker. Many of you wrote to me and asked, "where can I get 600 ohm headphones"?

Well, drum roll please,

.....,

Universal Radio  
Reynoldsburg, OH  
800-431-3939

has them. I just received their latest catalog and there they are on page 26.

Japan Radio, Model ST-3, \$69.95 (+ \$5 S+H). They are billed as "the last headphones you will ever buy".

They also have a nice selection of Shurr keys, plenty of antennas. lots of books and even a Watkins-Johnson receiver to go with that cubic incher you have wanted to build.

72 de Mark N2VPK Member of the Buffalo QRP Connection

From owner-qrp-l@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "Vernon A. Hatley" <vhatley@worldnet.att.net>  
Subject: [3392] Anyone built a OHR 100 yet?  
Message-ID: <1.5.4.16.19960830082521.1e4f7a1e@postoffice.worldnet.att.net>

Has the OHR 100 been shipped, and if so, has anyone here built one yet? My curiosity is killing about this rig yet no one has said much about it lately.

--

KK5RO	Vernon A. Hatley
QRP-L #325	Shawnee, OK
Ten Tec Omni V	OHR Explorer II 40m
Butternut Vertical	Kent Paddles
CMOS III Keyer	Speed-X Straight Key

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: wa5whn@ix.netcom.com (Jay Miller)  
Subject: [3422] Camp Out, high in the Rocky Mountains  
Message-ID: <199608310303.UAA22697@dfw-ix8.ix.netcom.com>

Dear Fellow QRP Compadres,

Listen for us, we will be camping at the following location (August 31, 1996, Saturday);

Lat. 36 degrees 01' 36" N  
Long. 106 degrees 50' 09" W

elevation: 9,300 feet asl (~ 17 miles ENE of Cuba, New Mexico & 63 miles NW of Albuquerque, New Mexico & 1.5 miles east of the San Gregorio Reservoir.)

High in the New Mexico Mountains, on 20/30/40 meters, QRP, will be N5ZGT, K8BI, WA5WHN, & WB5LYJ.

Hatch, NM Green Chili & Eggs for breakfast & posole for dinner.

2 Comets (one is Hale-Bopp, near the M14 Globular Cluster-looking south, from the Northern Hemisphere) in view.

Some how the food tastes better, with Friends, high in the Rocky Mountains.

72...Jay, WA5WHN

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "George T. Pasek Jr." <pasek001@maroon.tc.umn.edu>  
Subject: [3410] Distance computing  
Message-ID: <67929.pasek001@maroon.tc.umn.edu>

Again, maybe this old hat, but is there a \_simple\_ bare bones program out there that will compute straight line distance between two points?

I see that the QRZ (and maybe others) have the Lat./Long. listed with the Call info. Once I get the 49er that I ordered up and running, I'd like to know the distance of stations I (hopefully) work. I'm sure that there are programs that have this as one of their functions, but I'd like something stand alone and simple.

I did check the files at funet.fi and didn't see anything. If I don't find something then I'll write one, but why reinvent the wheel :-)

Tnx  
de George  
WD0AKZ

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "Bowes, Fr. Bruce" <GBB1@MUSICB.MARIST.EDU>  
Subject: [3393] FS HW-8 and tuner  
Message-ID: <30AUG96.11355167.0036.MUSIC@MARISTB.MARIST.EDU>

I have a HW-8 that I bought from the builder. It is in excellent condition. He indicated that he had used it only a few times and it would seem true. It had been modified and has a RIT, and Keyer. The tuner has both forward and reflected meters, 100 khz crystal calibrator, and dummy load.

The rig shows no sign of lack of power on the 80 and 40 m bands.

I have all manuals, scraps of paper, articles and related information.

\$165

Fr Bowes 914 227 9295

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "J. Skalski" <jskalski@acsu.buffalo.edu>  
Subject: [3419] FS morse Keyboard  
Message-ID: <Pine.GS0.3.93.960830221153.13125D-1000000@autarch.acsu.buffalo.edu>

Hello,

I have a morse keyboard partial kit.

Actually it is complete and already built. I have used it for the last few years but it is time to send it to a new home.

To use it you will have to build an enclosure. It includes the PCB, keypad with connector (which attaches to the PCB)

The enclosure can be made of plastic, metal or wood. I've seen all kinds.

The keyboard uses a TI-99A keypad (included)

The unit runs off of 9-14vdc.

The keyboard is a CW6805 that was originally published in QST dec. '88

It has the following features:  
keyboard selectable speed, spacing and weighting  
64 letter typeahead buffer  
programmable contest contact counter  
provides 7 - 255 letter programmable memories  
alternatively the ram can be used as expanded typeahead buffer(256 letter)  
for serious ragchewer

Once you use a keyboard in a contest; you won't go back to a hand key.

I will ship the above for \$33.

73,

Jim N2GO  
The Buffalo QRP CONNECTION  
ARCI #9013 QRP-L #381  
jskalski@acsu.Buffalo.EDU

From owner-qrp-l@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "J. Skalski" <jskalski@acsu.buffalo.edu>  
Subject: [3411] fs scaf filter kit  
Message-ID: <Pine.GS0.3.93.960830165138.22755C-100000@destrier.acsu.buffalo.edu>

hello,

I have the pcb, 2 MF8ccn IC's and all parts except the voltage  
regulator,lm386 and 555 timer IC.(radio shack stuff)  
Includes all resistors, capacitors and new 6 position switch.

I have one already built in a separate cabinet that can be used with all  
rigs. The "spare" partial kit is for sale.

This is the SCAF filter described by N4UAU in QST oct. '92  
The same design as the OHR scaf filter.

This is a great addition for the TEN TEC 509 and similar rigs.

I will ship via priority mail for \$25.

73,

Jim N2GO

The Buffalo QRP CONNECTION  
ARCI #9013 QRP-L #381  
jskalski@acsu.Buffalo.EDU

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "J. Skalski" <jskalski@acsu.buffalo.edu>  
Subject: [3404] FS Telex headset  
Message-ID: <Pine.GS0.3.93.960830135825.98A-100000@conciliator.acsu.buffalo.edu>

Hello,  
with the posting for a 600ohm headset I remembered that I bought a telex headset. I never did get to use it.  
I measure the resistance of the headphones as 600ohms. The headset also has a boom mike which can be flipped up out of the way.  
It is a Telex model 2400. I will ship it for 28 bucks if anyone can use it.  
The headphone part has a 1/4" plug, the mic connector is a 4pin I might have wired for a TS130s (but I don't really remember)

73,

Jim N2GO  
The Buffalo QRP CONNECTION  
ARCI #9013 QRP-L #381  
jskalski@acsu.Buffalo.EDU

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Rogerio Gonzaga <gonzaga@med.up.pt>  
Subject: [3386] G5RV vs 40M dipole  
Message-ID: <198506300925.LAA03395@hipocrates.med.up.pt>

Hi, Ron,

...about

..."difference between a full size dipole for 40 and a G5RV on 40? I would like to think about using the 40 dipole on 20 with a tuner if possible...Thoughts?

Ron KB6GK  
NorCal #1718

San Francisco"

...., why don't you use a half-size G5RV, as it is smaller than the 40= meters dipole, almost as efficient as it, in some settings it doesn't even need an ATU for the 40 meters, and it always can be very easily tuned to the 20= meters?

Gud luck es best 72/73 de Roger, CT1ETT

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: PORNCHAI SEMJANG <a37s0112@orchid.bu.ac.th>  
Subject: [3385] HS QRP Active!!!  
Message-ID: <Pine.SOL.3.95.960830142024.10242B-100000@orchid.bu.ac.th>

Hello Gang,

I am only one guy in Thailand work the world with 5 watts.  
I'm new come in QRP operation (less than 3 month).I leaves in Bangkok (Capital city of Thailand).And I work 4 station from USA almost west-cost ,California.I use MFJ-9020 with inverted-V home brew antenna.It's a new world to work difficult country with only few watts.Anyway I already work half way to DXCC Hi..Hi. Nice to be member of QRP group.

73, Joe

HS2JFW

Bangkok University HAM Club

HS2JFW QS0 = 125 DXCC = 55 CFM = 6

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: af852@rgfn.epcc.Edu (William R Colbert)  
Subject: [3399] HS-8 headsets  
Message-ID: <9608301657.AA19942@rgfn.epcc.Edu>

I believe the HS-8 is the military surplus type which are 600 ohm impedance. Excellent item. Construction of the ear pieces is hard bakelite-plastic and have two types of rubber cushions made to fit. One was the old large foam rubber center with a hard rubber backing which covered the ear (similar to the size of current headsets



like the Kenwood HS-5 or Yaesu, etc) and a smaller rubber pad that just fit over the ear, but left enough sound travel to hear what was going on around. Last Fair Radio catalog I saw had some in there, but that was a long time back. Maybe worth a check with them or any other military surplus radio outlet. I have seen them in large quantities at hamfests as well. If one does find a source and buys them, be sure and get the extender cable as the headset wiring is to only a short cord with a short plug (designed for fast disconnect) that fits into the extender cord. Otherwise, a rewire job will be in order. 73 Ray

--

Ray Colbert, W5XE/V31XE, El Paso, Tx

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Goemans <jgoemans@facstaff.wisc.edu>  
Subject: [3420] I'm back !  
Message-ID: <199608310230.VAA57065@audumla.students.wisc.edu>

Hi all,

Well, I have moved, sold my former QTH TO Karl N9XVZ, who is looking forward to operating from the QRP contest-winning QTH of me, WA9PWP. Sorry but I have yet to throw a wire through the trees so I can rejoin my QRP friends. Patience ! Maybe Karl will take over in the 40 mtr foxhunt this fall ! I will be back soon !

72 Paul WA9PWP

PS I am now in Stoughton, Wi just south of Madison.

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: brybry@juno.com (Brian J Carling)  
Subject: [3389] I'm here.  
Message-ID: <19960830.040621.8087.7.brybry@juno.com>

8-30-96

>From Brian Carling:

Dear correspondents

Greetings! How are you? What's new?

Probably at least once in the last month or two you have pondered:

"Why hasn't Brian sent me an e-mail lately...?"

While I was thinking to myself: "Why doesn't \_\_\_\_\_(fill in blank)  
respond to their e-mail that I send to them?"

Well, the truth is that I have had TWO failed Internet Service Providers  
in a row  
now, and found out it is because they do not know how to make their  
servers  
work properly! So I have NOW given up on EROLS too. They were awful!  
Almost no e-mail was getting through, inbound or outbound.

This account at JUNO is a test. I hope to soon have a REAL, FULL Internet  
service  
that works properly & will advise you after I get it set up.

Meanwhile I hope everything is going well with you and that we can keep  
in touch this  
way.

I will write back with more news if I find that this is getting  
through to you.

Write soon, OK? But NOT to my old EROLS address.

\*\*\* NOTE \*\*\*

\*\*\* PLEASE DELETE:

bry@dcclink.com AND bry1@erols.com

\*\*\*NEITHER OF THESE WILL WORK NOW!!!!

Regards - Brian Carling in Gaithersburg, Maryland, USA

Brian = brybry@juno.com  
Marie = hephzibah@juno.com

--

Brian Carling in Gaithersburg, Maryland USA  
brybry@juno.com  
Soon to be @mns.com

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Rob <rkopp@PioneerPlanet.infi.net>

Subject: [3405] Iambic Paddles  
Message-ID: <32275D0C.1CF8@PioneerPlanet.infi.net>

Hey all,

After months of silently scanning this list I have something to talk about. I just built a Wilderness Norcal 40a with KC-1 keyer and had my first contact (500+ miles with 599 report to Detroit area). I have not completed installation of the KC-1 and would like recommendations for Iambic paddles to go with this rig. I have two possible routes. I would either like a good base unit, and I'll use a hand key for portable operation, or purchase a portable set of paddles. Any recommendations would be greatly appreciated.

Thanks,

Rob (KA0GZO)

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: w7ls@brigadoon.com  
Subject: [3382] Kantronics 80-40 rx  
Message-ID: <199608300638.XAA02155@olympic.brigadoon.com>

Hi, all. I have a Kantronics receiver that has some popping static noise in it. It works on 80 and 40 meters, although it is noisy. Anyone know this rig and the probable cause? It's an oldie. Around 1979 or so, I think. This is an itty-bitty qrp receiver, by the way.

72/73 de Jim, W7LS

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Buck Switzer <n8cq@tir.com>  
Subject: [3406] MI-QRP Web Page  
Message-ID: <199608301924.PAA10694@tir.com>

Gang - Hank K8DD just finished the first draft of MI-QRP page. Check it out at: <http://www.Geocities.com/CapeCanaveral/2844/miqr.html>. There are a number of links to other pages already up and running. Let us know if there is anything to add.

72/73

Buck Switzer, N8CQA, 654 Georgia Ave., Marysville, MI 48040-1243

Home:(810)364-9640, Work:(810)949-0151, Fax:(810)364-8179  
n8cqat@tir.com, am441@detroit.freenet.org

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Buck Switzer <n8cqat@tir.com>  
Subject: [3407] MI-QRP Web Page Correction  
Message-ID: <199608301951.PAA14851@tir.com>

Gang - Please use: <http://www.Geocities.com/CapeCanaveral/2844/>. When the page comes up, click on the MI-QRP page.  
Thanks.

72/73

Buck Switzer, N8CQA, 654 Georgia Ave., Marysville, MI 48040-1243  
Home:(810)364-9640, Work:(810)949-0151, Fax:(810)364-8179  
n8cqat@tir.com, am441@detroit.freenet.org

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "Frank G3YCC" <g3ycc@enterprise.net>  
Subject: [3400] New additions to web page  
Message-ID: <199608301705.SAA25329@mail.enterprise.net>

Thanks to those who have offered advice for expanding my web pages, but I think I will stick with the present arrangement and trim down a bit.

NEW STUFF includes:

An 80m DSB rig  
A 30m TX  
new links

Cheers

--

Frank G3YCC  
Ham Radio QRP Web Page:  
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: lee@radioadv.com (Lee Richey)

Subject: [3409] OHR 100

Message-ID: <1.5.4.32.19960830201042.00a38390@radioadv.com>

>Has the OHR 100 been shipped, and if so, has anyone here built one >yet?

Yes, I just finished a OHR 100/40. First impression - very very nice. I haven't had it on the air yet as I just finished it today. I will do a burn-in for a day or two and on the air it goes.

Quick measurements yielded the following results. I will do more careful testing when I get more time.

MDS -135dbm

Bandwidth wide 1Khz  
          narrow 500hz

Opposite sideband at 750 hz, better than 50db down.

AGC commences at a little less than 5uV

AGC slope, 60db input, 15db output. (I like this much better  
  than very tight AGC loops)

Max output well over 5 watts at 13.8v

Keying waveform is nearly ideal, both on and off.

Frequency stability is being measured but I need to put some thermal cycles on the unit before making comments. First impression is that the stability is good.

Receive current drain, 58mA.

I did make one minor change to the unit at C190. I noticed that when I put my frequency counter on the test loop, the receiver performance improved. The added loading of the counter reduced injection to the first mixer which may have been otherwise slightly overloaded by the local oscillator.

I changed this cap from 0.01uF to 47pF, then plugged a shorted RCA phono plug into the osc out jack when not using my RAC DigitalDial. The output of the premixer is now a little less than 1 volt p-p.

I probably could have re-tuned the premixer bandpass filter to accomplish the same thing. Maybe I'll try that real soon now.

Looks like there's lots of room for a CodeBoy PuP keyer and a

ni-cad battery pack inside the unit for a very nice portable unit.

Very nice radio.

-Lee Richey WA3FIY-

Lee@radioadv.com

<http://www.radioadv.com>

From owner-qrp-l@Lehigh.EDU Fri Aug 30 23:13:05 1996

From: "Vernon A. Hatley" <vhatley@worldnet.att.net>

Subject: [3424] OHR 100 response...TNX

Message-ID: <1.5.4.16.19960830230712.1f772628@postoffice.worldnet.att.net>

Seems many of you out there have already built or in the process of building the new OHR 100. From the responses, I think Dick has another winner on his hands. Now, how to convince the wife I need yet another QRP rig. ;-)

--

KK5RO

Vernon A. Hatley

QRP-L #325

Shawnee, OK

Ten Tec Omni V

OHR Explorer II 40m

Butternut Vertical

Kent Paddles

CMOS III Keyer

Speed-X Straight Key

From owner-qrp-l@Lehigh.EDU Fri Aug 30 23:13:05 1996

From: Duane Anderson <usnret@cris.com>

Subject: [3417] OHR Catalog

Message-ID: <32279A2C.3654@concentric.net>

If anyone would be so kind as to send me an extra copy of the recent OHR catalog, I would be very appreciative.

Duane Anderson

443 E. Brandt Ct. #21

Salt Lake City, UT 84107

Thanks es 72.

Duane, KJ7H0

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "Drew O. Mcdaniel" <drew@ksmk.itm.edu.my>  
Subject: [3421] QRP Apartment operations  
Message-ID: <Pine.SOL.3.90.960831102240.10920B-100000@earth>

I am sorry if this arrives after the thread has run its course. From here in Malaysia, I seem always to be two days out of step.

I'd like to encourage anyone living in an apartment to try QRP. Getting an antenna that works effectively is often the most interesting challenge in setting up any station. The challenge is even more interesting if you're in an apartment. As someone pointed out, there can be some advantage to the height of the apartment, so it isn't all bad.

I've been on the air from a 3rd floor apartment recently. I am using a dipole with one leg held away from the building by a bamboo fishing pole. Running 5 Watts from my QRP+ I have worked 22 countries in about a month of one hour a day operations. Granted, a 9M2 gives me about 2 S units in a pileup, but I've managed to pull out some tough ones including XZ1 in Myanmar, the KH4 expedition, and VQ9 in Chagos. I had similar results last year operating from the former Soviet Union (this was described in an article in QST; I think it was April issue this year).

QRP stations are not a novelty in Southeast Asia, by the way. I have worked ones in Malaysia, Thailand, and Singapore--some of whose operators are regulars here on the list.

So listen for me on the low end of 20 meters. I am usually on the air around 1200Z. Till then,

73 de

Drew 9M2MC/W8MHV

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Tom Bowman <tbowman@nbn.net>  
Subject: [3388] QRP Power  
Message-ID: <2.2.32.19960830110757.006baba0@nbn.net>

Just got my copy of QRP Power from the League in time for some Labor Day reading.  
One article alone, Revisting the 40-40, is worth the price of the book.  
The writers did a great job of presenting a variety of hams' opinions about

different

aspects of the rig. A fine conversational tone makes this a great read....Nice job.

Tom

-----

Tom Bowman, WA3REY, Mount Gretna, PA 17064      tbowman@nbn.net

From owner-qrp-1@Lehigh.EDU   Fri Aug 30 23:13:05 1996  
From: Glen Leinweber <leinwebe@mcmail.cis.mcmaster.ca>  
Subject: [3398] question about streetlights re:noise  
Message-ID: <1996Aug30.123533-0400@[130.113.234.7]>

Many have mentioned that faulty streetlights have cause QRN. I know that some starting circuits for high-pressure mercury-arc lamps can put out lots of nasty wideband R.F. junk. They're difficult to start, requiring a high-voltage (usually R.F.) source to get them going, then they revert to lower voltages.

I've never seen the starting circuits for mercury or high-pressure sodium streetlamps, and am curious how they're powered up. Do they also use high-frequency starting circuits to generate initial arcs? Or heaters?  
And why do some sodium lamps extinguish, then restart?  
Glen VE3DNL   leinwebe@mcmaster.ca

From owner-qrp-1@Lehigh.EDU   Fri Aug 30 23:13:05 1996  
From: "Jeff T. Casey" <JCASEY@FAC.HAR.SUNYSB.EDU>  
Subject: [3414] Scout/Argo mods?+I'm new!  
Message-ID: <19A78D067AF@fac.har.sunysb.edu>

Hi gang,  
I'm new to the list this summer and have only been active for a short time following 15 years of inactivity. So you can call me "Rip van Winkle" (although I was just QRT, not literally comatose :-)  
I've been severely bitten by the QRP bug and so far I'm having a blast. I'll tell you, this list makes modifying, building, and operating 10 times more fun! IMHO, we're seeing the future of "serious" amateur radio right here, or at least one important facet of it. Why, I think I've found a \*home\* with this group!

--Oh, don't worry. Your Bud Lite's safe, man :-)) I do, however,



have a less presumptuous request:

Does anyone know of mods or useful add-ons for the Ten-Tec Scout 555 and/or Argo 556, a.k.a. Cubby?

The only mods I've seen discussed in recent posts are the following:

- Put a fan on the Scout's heat sink to increase PTO stability.
- Use an external keyer to free up the microprocessor and thus decrease the magnitude of frequency corrections.
- Use resistor(s) in combination with low impedance headphones, or use high impedance and/or low pass headphones to attenuate digital whine in the audio output.
- Fix a possibly reversed muting transistor in order to improve muting on SSB.

Assuming this topic hasn't been exhausted in previous threads, I'll summarize the responses for the list. Thanks much!!

72/73,

Jeff / WB5GWB / QTH Long Island, NY

From owner-qrp-l@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: QLF@mimi@magic.itg.ti.com  
Subject: [3401] SIERRA ORDERED!  
Message-ID: <9608301749.AA21006@itg.ti.com>

From: Brad Bradfield QLF

Subj: SIERRA ORDERED!

Well friends and neighbors, I have just ordered a Wilderness Sierra to replace my recently sold MFJ-9040 and Kenwood TS-520S. Had a nice long phone conversation with Bob and he sure is nice to do business with. I am substituting a 160 Meter band module for the 17 Meter module. Hope to eventually order the 17, 12 and 10 meter modules as well as a KC-2. Just gotta liquidate a bit more cash. HI HI

73's

Brad, WB0CGH

\*\*\*\*\*  
Brad Bradfield, PE Electrical Design Engineer  
(H) 817-321-2960 Texas Instruments, Inc.  
(W) 214-462-6230

Real men talk with their fingers!

QLF@MSG.TI.COM

WB0CGH@W05H.#DFW.TX.USA.NA

ARRL Life Member QRP-L #377 SMIRK #4906 IEEE(M) ARS #72

Collector of wireless and landline Morse keys and accessories.

\*\*\*\*\*

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996

From: stevebar@ix.netcom.com (Stephen A. Baranowski)

Subject: [3404] TenTec Century 21 mods ????

Message-ID: <199608301820.LAA15720@dfw-ix5.ix.netcom.com>

Hi -

Does anyone know of any mods to the Century 21? I would appreciate knowing about them - or where to find them.

72 / 73

Steve

AA1BK

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996

From: sassoli@ii1wh10.settimo.italtel.it

Subject: [3384] Thanks!

Message-ID: <9608300657.AA24517@ic8u32.settimo.italtel.it>

Thanks to all the friends who answer me about NorCal.

Now I know what it is!

Few years ago I got an HW-7 for three months (a friend of mine lent it to me) and I was enthusiast of it.

But I know that Heath amateur radio div. stopped its activity years ago.

I don't have http possibilities, so I can't visit the NorCal home page (sigh!).

Anyway any other info about good QRP rigs kits available (such as models, prices, e-mail or ftp addresses etc.) will be welcome and surely useful for me.

Thanks again and 73.

Paolo IK2LNH

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
Subject: [3412] Tuned Feeder Dipoles

The majority of hams don't realize that almost any reasonable length of dipole can be made to give a 50 ohm resonant point on a single frequency by using a tuned feedline and a single parallel reactive component. For instance, a G5RV can be converted to an optimized 3.8MHz antenna with an SWR of 1:1 on the coax by shortening the 300ohm section to approximately 25.5ft and installing an approximately 0.0017uf parallel capacitor at that point, according to EZNEC.

We can optimize (no tuner required) a G5RV to 7.2MHz in three ways:

1. Cut the 300ohm section to 29.8ft and add a 1.3uh coil in parallel for 50 ohm SWR = 1:1 (I call this the PL-50 point.)
2. Cut the 300ohm section to 31.3ft for a 50 ohm SWR = 1.7:1 (fed at an I<sub>max</sub>/current loop)
3. Cut the 300ohm section to 32.8ft and add a 380pf cap in parallel for 50 ohm SWR = 1:1 (I call this the PC-50 point.)

This antenna will be so close to the efficiency of a halfwave dipole on 7.2MHz that one can't tell the difference in operation.

A shortened dipole with a long 300 ohm ladder-line tuned feeder and a short piece of coax would make a perfect single band backpack, QRP, or limited-space antenna not requiring a tuner.

73, Cecil, W6RCA, 00TC (not speaking for my employer)

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: SEEP64A@prodigy.com (MR DAVID M LOCKARD)  
Subject: [3381] unsubscribe qrp-1  
Message-ID: <199608300447.AAA09098@mime2.prodigy.com>

My e-mail address has changed. please unsubscribe David Lockard  
KG8WH thank you.

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: mvjfm@mvubr.att.com  
Subject: [3392] W1FMR adr change  
Message-ID: <199608301220.IAA20457@alig1.att.att.com>

e-mail Addr change        mvjff@mvubr.lucent.com

72/73    Jim Fitton, W1FMR    <><    NE-QRP,    NH

From owner-qrp-1@Lehigh.EDU    Fri Aug 30 23:13:05 1996  
From: ke1ex@ids.net (Laurent C. Lafond)  
Subject: [3400] WalMart Power Stations  
Message-ID: <199608301618.MAA04981@pobox.ids.net>

Let the truth be known, there is a Ham god out there !!!  
Second time was a charm....First one didn't do diddlliittyy...

Second one performs beyond my expectations.    Thank you to  
whomever discovered this wonderful piece of equipment.

For those of you who are not loaded down with a "Junque Box"  
yet, like me --- K-Mart has the proper Wall Wart -- Audio brand  
#AS501K    @    \$9.99, in case you don't want to recharge it in  
your car. The Rhode Island WalMart didn't carry the right one  
(as recommended by the manufacturer).

Laurent        AA1QJ

From owner-qrp-1@Lehigh.EDU    Fri Aug 30 23:13:05 1996  
From: kgraham@CSWNET.COM (Kenton E Graham)  
Subject: [3387] Wattmeter in "Joy of QRP"  
Message-ID: <199608301103.GAA06851@troi.csw.net>

Since the "JOY OF QRP" book was recently mentioned in these pages, I will  
mention that there is a simple and highly accurate qrp wattmeter design  
in that book. If you have a 50 ohm dummy load, and can scrounge a sensitive  
microammeter, say 100 or 200 full scale, you have most of the parts needed.

I have been using this wattmeter for qrp for several years. It is easily  
calibrated, and the price is right...

From owner-qrp-1@Lehigh.EDU    Fri Aug 30 23:13:05 1996

From: torell@sicom.com (Kent Torell)  
Subject: [3395] Re: 2-W NON-inductive resistors FOUND  
Message-ID: <v02130500ae4cb22b3910@[192.91.202.41]>

>Well, in perusing my latest DIGI-KEY catalog (#965 - Sept/Oct 1996)  
>lo-and-behold, I  
>found on page 267 a listing for 2 watt resistors. And, bless-my-bias they  
>are also  
>NON-INDUCTIVE 5% METAL FILM! The full standard range from .47 to 1Meg is  
>available

I checked these out on the network analyzer, and they look very good; at least the 50 ohm one.

Kent Torell      torell@sicom.com      602-483-2867 x40  
SICOM    7585 E. Redfield, #202    Scottsdale, AZ    85260

From owner-qrp-l@Lehigh.EDU   Fri Aug 30 23:13:05 1996  
From: Glen Leinweber <leinwebe@mcmail.cis.mcmaster.ca>  
Subject: [3397] Re: 2-W NON-inductive resistors FOUND  
Message-ID: <1996Aug30.121957-0400@[130.113.234.7]>

For use in a dummy load, resistors should be de-rated a little, since they're likely to be in close proximity to each other. This reduces their heat-dissipating ability.

While not so important in the H.F. range, you should try to connect your dummy load resistors to 50 ohm coax with leads as short as possible to reduce inductance. Paralleling resistors in a bank will also help reduce inductance, and increase power handling ability.

Here's some paralleled combinations, using standard values to give 50 ohms: I've limited the series to QRP; you can be creative with combinations.

Two 100 ohm 2W.....4 watts (derate to 3 watts)  
Three 150 ohm 2W.....6 watts (derate to 4 watts)  
Three 180 ohm 2W, 330 ohm 1 watt (50.77)..7.1 watts (derate to 5 watts)  
Four 220 ohm 2W, 560 ohm 1/2 watt.....8 watts (derate to 5 watts)  
Five 270 ohm 2W, 680 ohm 1/2 watt.....10 watts (derate to 6 watts)

Its really easy to add a diode, and smoothing capacitor to your dummy load to measure power output, but we've covered that one before.

72, Glen VE3DNL

In <v02130500ae4cb22b3910@[192.91.202.41]>, Kent Torell wrote:  
>>Well, in perusing my latest DIGI-KEY catalog (#965 - Sept/Oct 1996) lo-and-behold, I  
>>found on page 267 a listing for 2 watt resistors. And, bless-my-bias they are also  
>>NON-INDUCTIVE 5% METAL FILM! The full standard range from .47 to 1Meg is  
>>available  
>I checked these out on the network analyzer, and they look very good; at  
>least the 50 ohm one.  
>  
>  
>Kent Torell      torell@sicom.com      602-483-2867 x40  
>SICOM      7585 E. Redfield, #202      Scottsdale, AZ      85260

From owner-qrp-l@Lehigh.EDU   Fri Aug 30 23:13:05 1996  
From: torell@sicom.com (Kent Torell)  
Subject: [3403] Re: 2-W NON-inductive resistors FOUND  
Message-ID: <v02130503ae4cd0f674fa@[192.91.202.41]>

RE: Digikey 2W metal film resistors...

>How high did you look ??  
>  
>Niel  
>  
>-----  
>Niel Skousen, SCIENTECH Special Projects      nskousen@scientech.com  
>208.525.3742, FAX 529.4721 Idaho Falls ID      WA7SSA      QRP-L.119  
>-----

OK, I pulled the 51 ohm resistor out of my swr bridge, soldered it to groundplane and a piece of semi-rigid coax, and measured it with our HP network analyzer. Looks like 50 ohms with 14 nH series inductance, out to 600 MHz. Now, at 600 MHz, 14 nH looks like 50 ohms reactive, so you clearly don't want to use it at that frequency. At 60 Mhz, it's only 5 ohms reactive, and you won't really notice.

Therefore, I conclude these resistors are good to 6 meters, and possibly 2 meters with careful construction. Still OK for dummy loads at 2 meters.

A useful 'factoid'...free space wire inductance is around 16 nH per inch, which is also about the size of this resistor...

72, ab7oa

Kent Torell      torell@sicom.com      602-483-2867 x40

SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260  
AB7OA Tmps 1996 Qs=019 States=13 Confirmed=05 DX=01  
AK AZ CA CO HI ID IL KS MN OK OR TX WA  
VE

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "Mark E. Monninger" <markem@primenet.com>  
Subject: [3396] Re: 600 ohm phones  
Message-ID: <Pine.BSI.3.94.960830083712.10104A-1000000@usr10.primenet.com>

Well, technically the 600 ohms is impedance, not pure resistance, but at audio freqs I doubt there's a lot of difference.

I believe Radio Shack sells a 1K-8 ohm transformer for a couple bucks. That would likely be close enough...connect the 1K side to the rig and the 8 side to the phones.

I think the other issue is freq response of the phones. The 8 ohm phones most people have are meant for walkman type usage and have an upper limit in the 20KHz range whereas most 600 ohm phones are intended for communications use and have a much lower cut-off, something like 3KHz or so. Keeps you from hearing as much of the hiss and other hi freq noise. As someone else pointed out, the walkman type phones are really too good in that respect.

Hmmm...maybe this is one case where OF's like me with rather severe hi-freq hearing loss are at an advantage...??? Kind of a bionic low-pass filter. ;-)

My \$0.02 worth, anyway...

73... Mark AA7TA

On Fri, 30 Aug 1996, Bob Hirsch wrote:

> OK everybody -- here's a question for you. For you Scout owners and  
> anybody else who wants 600 ohm headphones, how about just putting a 600 ohm  
> resistor in series with a low impedance set of phones, and use whatever ones  
> are comfortable and fit the head and the budget?  
> Wouldn't a series resistor do the same thing (600 ohms + 8 ohms) or am I  
> missing something in this picture?

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Dale LeDoux <dledoux@laci.net>  
Subject: [3413] Re: 600 Ohm Phones Found!  
Message-ID: <199608301201.HAA09914@lac1.laci.net>

At 07:59 8/30/96 -0400, you wrote:

>

>Hi Gang,

>

>We were discussing the "digital hiss" in the Ten Tec Cubby/Scout and I  
>mentioned that TT recommends 600 ohm headphones in order to get the same  
>relative volume from the phones and the speaker. Many of you wrote to me  
>and asked, "where can I get 600 ohm headphones"?

or....

get an 600-8 ohm audio transformer from R-S or anywhere else and mount it in  
a little box with the appropriate cord and plug on one side and jack on the  
other. Then you can use your eight-ohm headphones with the rig.  
Admittedly, the 600-ohm phones are more elegant, but there's many a path to  
a hairless feline...

Dale

Dale LeDoux KD5QI  
Bath Electrical Systems  
480 volts to 230 KV  
Sulphur, LA

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Steve Bornstein <sabornsb@freenet.columbus.oh.us>  
Subject: [3402] Re: Anyone built a OHR 100 yet?  
Message-ID: <Pine.3.07.9608301320.A28909-b1000000@login>

Hi Vernon et al,

I finished a OHR-100 several weeks ago. The model I purchased is the 15  
meter version. Unfortunately the 15 meter band has been a dead issue so I  
can't give you a report on performance.

The kit goes together very nicely. all parts are of high quality and assembly  
instructions are excellent. all wired connections to the single board are made  
with pre-wired molex connectors which makes for a very neat and tidy finished  
product. The unit puts out 5 watts and has a variable band width filter.  
There is also an oscillator output jack on the rear panel for use with the DD-1  
digital dial/counter which I also built.



73, Steve K8IDN QRP-L #331

On Fri, 30 Aug 1996, Vernon A. Hatley wrote:

> Has the OHR 100 been shipped, and if so, has anyone here built one yet? My  
> curiosity is killing about this rig yet no one has said much about it lately.  
> --  
> KK5RO                      Vernon A. Hatley  
> QRP-L #325                 Shawnee, OK  
> Ten Tec Omni V             OHR Explorer II 40m  
> Butternut Vertical         Kent Paddles  
> CMOS III Keyer             Speed-X Straight Key  
>  
>

From owner-qrp-l@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Duane Anderson <usnret@cris.com>  
Subject: [3390] Re: CALL TRIVIA  
Message-ID: <3226D40A.229B@concentric.net>

To save you the trouble, Phil, the 1994 issue is the May 1994 page 54...  
entitled, "An Overview of Amateur Call Signs - Past and Present", by  
Phil Sager and Rick Palm.

72,

Duane, KJ7H0

Phil Wheeler wrote:

>  
> Not exactly on target, but there was a 1994 (or thereabouts) QST article  
> on the history of ham radio calls in the U.S. Makes interesting reading.  
> Alas, by 1994 archives are in a box. But if someone is interested in  
> knowing the exact issue, I can do a search.  
>  
> Phil W7UOX

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: lhalliday@creo.bc.ca  
Subject: [3413] Re: Distance computing  
Message-ID: <9607308414.AA841442030@mail.creo.bc.ca>

George WD0AKZ asks:

> Again, maybe this old hat, but is there a \_simple\_ bare bones  
> program out there that will compute straight line distance between  
> two points?

I've played with an old propagation program called Minprop that displays great circle distances (short- and long-path) along with propagation predictions. It should be in all the usual repositories.

Thinking of an older thread, I use my slide rule (which has trig scales) for such calculations. :-)

Laura Halliday VE7LDH	"C'est une femme mutine, assez
lhalliday@creo.bc.ca	elegante, grave et legere, ayant le
ve7ldh@amsat.org	sens du confort et du plaisir
Locator: CN89mg	en tout." - C. Deneuve

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Jim Eshleman <lujce@hooch.cc.lehigh.edu>  
Subject: [3423] Re: Distance computing  
Message-ID: <96Aug30.234153-0400edt.65735-14099+255@hooch.CC.Lehigh.EDU>

> Again, maybe this old hat, but is there a \_simple\_ bare bones program out  
> there that will compute straight line distance between two points?

George,

Send a command like the following, in the body of an e-mail,  
to listserv@Lehigh.EDU:

```
RUN QRP-L X CALLS2DIST WD0AKZ N3VXI
```

The server connects (realtime) to the FCC callsign server to lookup  
the calls, the geo server to lookup the zipcodes, then runs a  
great circle distance program. Output appended below.

73

Jim N3VXI

```
-----  
WD0AKZ ZIP = 55113  
N3VXI  QTH = ESHLEMAN, JAMES C  
          2204 WEIDA LN  
          HELLERTOWN          PA  18055
```

```
WD0AKZ Lat/Long = 45 00 22 N  93 09 23 W  
N3VXI  Lat/Long = 40 34 46 N  75 20 28 W
```

Output from "gc 45.0036N93.0938W 40.3476N75.2046W":

Bearing is 102 Degrees for 826 Nautical Miles = 951 Miles = 1530 Km

```
-----  
From owner-qrp-l@Lehigh.EDU  Fri Aug 30 23:13:05 1996  
From: JCoote@aol.com  
Subject: [3416] Re: G5RV vs 40M dipole  
Message-ID: <960830215150_191430346@emout09.mail.aol.com>
```

In a message dated 96-08-29 00:41:01 EDT, rong@slip.net (Ron Giuntini)  
writes:

<< OK guys (since I have yet to see any posting from a female), what does  
anyone think of the difference between a full size dipole for 40 and a G5RV  
on 40? I would like to think about using the 40 dipole on 20 with a tuner  
if possible...Thoughts? >>

Ron and group-

The G5RV or 40 dipole will work on 40-20 (plus other bands), just don't feed  
it with coax between the antenna and tuner. Remove the coax, give it to  
CB'er with the advice it'll make "Them thar SRW's go down" Next, run 300 ohm  
TV line or 450 ohm ladder line between your tuner and the antenna. The  
longer legs of the G5RV may improve signals. The G5RV dimensions provide a

lower impedance on ham bands, but other feeder/flattop dimensions will also work with a tuner on some or all HF bands.

73, Jay  
WB6AAM

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: JEVERHART@cayman.vf.mmc.com  
Subject: [3400] RE: HS-8 headsets  
Message-ID: <960830134125.2021563b@carib.vf.mmc.com>

Gang,

As Ray mentioned, the mil surplus headsets are a great way to go. They are \*rugged\* and work well.

A quick check of the latest Fair Radio catalog doesn't turn up and HS-8's, but they list several including a PH-11 which looks (in the picture) similar. They used, excellent condition price is \$16.95.

Their telco no. is (419) 223- 2196. Call for a catalog.

Usual disclaimers apply.

72/73,

Joe E., N2CX

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "Bill C." <wrc@tir.com>  
Subject: [3399] Re: I'm here.  
Message-ID: <32274CA7.6BFF@tir.com>

Hi Brian,

It works okay... for now.

73,

Bill KU8H

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996

From: wb8ygg@juno.com (Bradley S. Mitchell)  
Subject: [3415] Re: Iambic Paddles  
Message-ID: <19960829.184848.2783.0.WB8YGG@juno.com>

As far as I'm concerned, I have the following keyers:

V2L: Very Nice , Great Base Keyer, beautiful \$105

Kent: Very Nice , Great Base Keyer, A little different keying than others, \$88 kit

Bencher: Great all around keyer, but the other two are better units. I bought

mine used for \$35.00 which is about what I would pay for one.

Heathkit HD-1410 paddles, and keyer. Nice unit, good to about 20 wpm or so.. ( I bought mine new around 1976). I think they were \$49.95 or so.

Whitbrook:nice portable keyer for backpacking. I haven't done this yet, but the center aluminum contact needs replacing with something that will provide a consistent contact. For the price, it's nice.

So there you have it.. Keyers are like cars. You can pay what you want. Unless you send above 25 wpm consistently, it won't make a lot of difference. I think that the benchner is a great starter set, and many

find this is all that they want/need. Look around for a used set. Some people actually sell their keyers when they upgrade.

For you , buying a benchner set would be good, and then if you really wanted to be Spartan, get a whitbrook too. Other than the Whitbrook, I'm not sure of any main stream, inexpensive keyers that are also, small and lightweight.

Seems to me a hole in the market there for a \$20-\$30 set of paddles.

Have fun es 73 Brad WB8YGG

On Fri, 30 Aug 1996 14:28:44 -0700 Rob <rkopp@PioneerPlanet.infi.net> writes:

>Hey all,

>

>After months of silently scanning this list I have something to talk

>about. I just built a Wilderness Norcal 40a with KC-1 keyer and had  
>my  
>first contact (500+ miles with 599 report to Detroit area). I have  
>nto  
>completed installation of the KC-1 and would like recommendations for  
>Iambic paddles to go with this rig. I have two possible routes. I  
>would either like a good base unit, and I'll use a hand key for  
>portable  
>operation, or purchase a portable set of paddles. Any  
>recommendations would be greatly appreciated.  
>  
>Thanks,  
>  
>Rob (KA0GZ0)  
>  
>

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: Hank Kohl <k8dd@tir.com>  
Subject: [3414] Re: MI-QRP Web Page Correction, Rev. 1  
Message-ID: <199608302157.RAA02844@tir.com>

At 15:51 08/30/96 -0400, you wrote:  
>Gang - Please use: <http://www.Geocities.com/CapeCanaveral/2844/>. When the  
>page comes up, click on the MI-QRP page.  
>Thanks.  
>  
>72/73  
>  
>Buck Switzer, N8CQA, 654 Georgia Ave., Marysville, MI 48040-1243  
>Home:(810)364-9640, Work:(810)949-0151, Fax:(810)364-8179  
>n8cq@tir.com, am441@detroit.freenet.org

Make that <http://www.geocities.com/CapeCanaveral/2844/miqrp.htm>

Without the [miqrp.htm](http://www.geocities.com/CapeCanaveral/2844/miqrp.htm) it goes to my page which is not even under  
construction. It's more like I haven't decided as to where put the  
footings!

Hank K8DD apprentice webber

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996

From: "J. Skalski" <jskalski@acsu.buffalo.edu>  
Subject: [3418] RE: scaf filter FS  
Message-ID: <Pine.GS0.3.93.960830220845.13125B-100000@autarch.acsu.buffalo.edu>

The above unit has been sold.  
Thanks for the response. Another item to a happy home.

73,

Jim N2GO  
The Buffalo QRP CONNECTION  
ARCI #9013 QRP-L #381  
jskalski@acsu.Buffalo.EDU

From owner-qrp-1@Lehigh.EDU Fri Aug 30 23:13:05 1996  
From: "J. Skalski" <jskalski@acsu.buffalo.edu>  
Subject: [3408] RE:telex headset  
Message-ID: <Pine.GS0.3.93.960830162146.22755B-100000@destrier.acsu.buffalo.edu>

The above headset has been sold. Thanks for replies.

73,

Jim N2GO  
The Buffalo QRP CONNECTION  
ARCI #9013 QRP-L #381  
jskalski@acsu.Buffalo.EDU